

### III. AMENDMENT TO THE CLAIMS.

Please amend the Claims as follows:

Please add new claims 25-33.

1. (Amended) A ~~low VOC (volatile organic compound) and/or low toxicity~~ coating formulation, comprising:

at least one non-halogenated solvent including terpene(s) or terpenoid(s);

at least one polymer selected from the group of polydialkylaminophenylene vinylenes comprising one of conducting polymer(s), conjugated polymer(s), or electroactive polymer(s), wherein said non-halogenated solvent(s) and said polymer(s) are in non-aqueous form.

2. (Amended) A coating formulation, comprising:

at least one non-halogenated solvent including terpene(s) or terpenoid(s);

at least one polymer selected from the group of polydialkyloxyphenylenevinylenes The coating formulation according to claim 1, further comprising at least one of copolymer, block polymer, and mixtures thereof.

3. (Amended) The coating formulation according to claim 1, or claim 2, wherein said terpene or terpenoid comprises at least one of dipentene (d-limonene),  $\alpha$ -pinene,  $\beta$ -mircene, p-cimene, citronellolio, geraniale (citrale), nerol, beta-carotene, menthol, geraniol, farnesol; and phytol, their homologs, derivative, enantiomers, isomers including constitutional isomers, stereoisomerisms, regioisomers, and geometric isomers, and any combination thereof.

4. (Amended) The coating formulation according to claim 1, wherein said polymers comprises ~~at least one of polydialkylaminophenylene vinylene including poly [bis (N-methyl-N-hexylamino)phenylenediaminevinylene] (BAMPPV) and polydialkoxyphenylenevinylene including poly[2-methoxy-5-(2' ethylhexyloxy)-1,4-phenylenevinylene] (MEHPPV).~~

5. (Canceled)

6. (Amended) The coating formulation according to claim 1, claim 2, claim 3, or claim 4, further comprising at least one of surfactant(s), solvent(s), and organic components.

7. (Amended) The coating formulation according to claim 1, claim 2, claim 3, or claim 4, wherein said polymers are in neutral, oxidized or reduced form, in the form of a salt including an emeraldine salt, or in any basic or acidic form.

8. (Amended) The coating formulation according to claim 1, claim 2, claim 3, claim 4, claim 6, or claim 7, wherein said solvent and said polymer formulation(s) are ~~in said non-aqueous form comprising~~ is a solution, mixture, suspension, or emulsion.

9. (Amended) The coating formulation according to claim 1, claim 2, claim 3, claim 4, or claim 6, contacting a second coating;

said second coating formulated with a terpene or a terpenoid and a polymer selected from the group poly [bis (N-methyl-N-hexylamino)phenylenevinylene] and poly[2-methoxy-5-(2'-ethylhexyloxy)-1,4-phenylenevinylene] wherein said coating formulation is applied to a substrate including spray coating, dip coating, spin coating, flow coating, doctor blade coating, or screen printing.

10. (Amended) The coating formulation according to claim 1, claim 2, claim 3, claim 4, or claim 6, further wherein said coating formulation is incorporated into a coating or resin comprising at least one constituent selected from the group of an epoxies, a polyurethanes, a polyamides, a polyimides, a polysulfides, a polysiloxanes, a polyvinyls, a polyphenolics, a polyxyles, a polyacrylics and a polyesters.

11. (Canceled)

12. (Amended) A low-VOC (volatile organic compound) and/or low-toxicity coating formulation, comprising:

about 0.01 % wt. to about 99.9 % wt. of at least one non-halogenated solvent including terpene(s) or terpenoid(s);

about 0.01 % wt. to about 90 % wt. of at least one polymer selected from the group of polydialkylaminophenylene vinylenes comprising of conducting polymer(s), conjugated polymer(s), or electroactive polymer(s); and

about 0.001 % wt to about 90 % wt. of at least one surfactant, wherein said non-halogenated solvent(s), said polymer(s), and said surfactant(s) are in non-aqueous form.

13. (Amended) A coating formulation, comprising:

about 0.01 % wt. to about 99.9 % wt. of at least one non-halogenated solvent

including terpene(s) or terpenoid(s);

about 0.01 % wt. to about 90 % wt. of at least one polymer selected from the

group of polydialkyloxyphenylenevinylenes; and

about 0.001 % wt to about 90 % wt. of at least one surfactant ~~The coating~~  
~~formulation according to claim 12, further comprising at least one of copolymer, block~~  
~~polymer, and mixtures thereof.~~

14. (Amended) The coating formulation according to claim 12, or claim 13, wherein  
said terpene or terpenoid comprises at least one of dipentene (d-limonene),  $\alpha$ -pinene,  $\beta$ -  
mircene, p-cimene, citronellolio, geraniale (citrale), nerol, beta-carotene, menthol,  
geraniol, farnesol, and phytol, ~~their homologs, derivative, enantiomers, isomers~~  
~~including constitutional isomers, stereoisomerisms, regioisomers, and geometric~~  
~~isomers, and any combination thereof.~~

15. (Amended) The coating formulation according to claim 12, wherein said polymers  
comprises ~~at least one of polydialkylaminophenylenevinylene including poly [bis (N-~~  
~~methyl-N-hexylamino)phenylenediaminevinylene] (BAMPPV) and~~

~~polydialkyl oxyphenylenevinylene including poly[2-methoxy-5-(2'-ethylhexyloxy)-1,4-phenylenevinylene] (MEHPPV).~~

16. (Amended) The coating formulation according to claim 12 13, wherein said polymers comprises poly[2-methoxy-5-(2'-ethylhexyloxy)-1,4-phenylenevinylene] at least one of ~~polyphenylene vinylenes, polythiophenes, polypyroles, polyanilines, polyacetates, polyacetylenes, polyacrylates, polyazene, polystyrene, poly-N-vinylcarbazole, polyvinylpyridine, polyindole, copolymer, block polymer, and any combination thereof.~~

17. (Canceled)

18. (Amended) The coating formulation according to claim 12, or claim 13, wherein said polymers are in neutral, oxidized or reduced form, in the form of a salt including an emeraldine salt, or in any basic or acidic form.

19. (Amended) The coating formulation according to claim 12, or claim 13, wherein said solvent and said polymer formulation(s) ~~are in said non-aqueous form comprising~~ is a solution, mixture, suspension, or emulsion.

20. (Amended) The coating formulation according to claim 12, or claim 13, contacting a second coating:

said second coating formulated with a terpene or a terpenoid and a polymer selected from the group poly [bis (N-methyl-N-hexylamino)phenylenevinylene] and poly[2-methoxy-5-(2'-ethylhexyloxy)-1,4-phenylenevinylene] wherein said coating formulation is applied to a substrate including spray coating, dip coating, spin coating, flow coating, doctor blade coating, or screen printing.

21. (Amended) The coating formulation according to claim 12, or claim 13, further wherein said coating formulation is incorporated into a coating or resin comprising at least one constituent selected from the group of an epoxies, a polyurethanes, a polyamides, a polyimides, a polysulfides, a polysiloxanes, a polyvinyls, a polyphenolics, a polyxylenes, a polyacrylics and a polyesters.

22. (Canceled)

23. (Canceled)

24. (Canceled)

25. (New) The coating formulation according to claim 2, wherein said polymers comprise poly[2-methoxy-5-(2'-ethylhexyloxy)-1,4-phenylenevinylene].

26. (New) The coating formulation according to claim 25, further comprising at least one of surfactant.

27. (New) The coating formulation according to claim 1, claim 2, claim 4, claim 12, claim 13, or claim 25, further comprising water.

28. (New) A composition comprising:

one or more solvents selected from the group of terpenes; and  
poly [bis (N-methyl-N-hexylamino)phenylenevinylene].

29. (New) A composition comprising:

one or more solvents selected from the group of terpinoids; and  
poly [bis (N-methyl-N-hexylamino)phenylenevinylene].

30. (New) A composition comprising:

one or more solvents selected from the group of terpenes; and  
poly[2-methoxy-5-(2'-ethylhexyloxy)-1,4-phenylenevinylene].

31. (New) A composition comprising:

one or more solvents selected from the group of terpinoids; and  
poly[2-methoxy-5-(2'-ethylhexyloxy)-1,4-phenylenevinylene].

32. (New) The composition of claim 28, claim 29, claim 30, or claim 31, further comprising water.

33. (New) The coating formulation according to claim 1, claim 2, claim 3, claim 4, claim 6, claim 12, claim 13, claim 15, claim 16, claim 25, claim 28, claim 29, claim 30, claim 31 or claim 32 wherein said terpene or terpenoid comprises a homolog, enantiomer, constitutional isomer, stereoisomer, regioisomer or geometric isomer of at least one of dipentene (d-limonene),  $\alpha$ -pinene,  $\beta$ -mircene, p-cimene, citronellolio, geraniale (citrale), nerol, beta-carotene, menthol, geraniol, farnesol and phytol.